

B2 25. (Amended) The method of any one of claims 22, 27, 40, 46 and 47 comprising electric arc spraying a molten metal feedstock at a temperature that permits the molten metal to freeze into an irregular surface configuration upon impinging on the substrate surface.

Sub DS 27. (Amended) A method for manufacturing a catalyst member comprising:
electric arc spraying a metal feedstock onto at least one open carrier substrate of reticulate configuration, to provide at least one substrate having an anchor layer coated thereon;
depositing onto the anchor layer a catalytic material comprised of a bulk refractory metal oxide having dispersed thereon one or more catalytically active components to provide at least one catalyzed substrate; and
B3 incorporating the at least one catalyzed substrate into a body configured to define an inlet opening and an outlet opening and so configuring and disposing the at least one catalyzed substrate between the inlet and outlet openings to define a plurality of fluid flow paths therebetween.

28. (Amended) The method of any one of claims 22, 27, 40, 46 and 47 wherein the anchor layer is deposited by electric arc spraying a metal feedstock selected from the group consisting of nickel, Ni/Cr/Al/Y, Co/Cr/Al/Y, Fe/Cr/Al/Y, Co/Ni/Cr/Al/Y, Fe/Ni/Cr, Fe/Cr/Al, Ni/Cr, Ni/Al, 300 series stainless steels, 400 series stainless steels, Fe/Cr and Co/Cr, and mixtures of two or more thereof.

B4 31. (Amended) The method of any one of claims 22, 27, 40, 46 and 47 wherein the substrate comprises a ferritic steel foam.

40. (Amended) A method for manufacturing a catalyst member to conform to a mounting container, comprising:

B5 depositing an anchor layer onto a pliable substrate to provide a substrate having an anchor layer coated thereon;
depositing a catalytic material onto the anchor layer; and
reshaping the pliable substrate to conform it to the container after depositing at least the anchor layer thereon.

B6 43. (Amended) The method of claim 40, claim 41 or claim 42 comprising reshaping the substrate after depositing the catalytic material onto the anchor layer.

Please add the following new claims.

46. (New) A method for manufacturing a catalyst member comprising:
depositing by electric arc spraying a metal feedstock onto a monolithic honeycomb carrier substrate having a plurality of gas flow passages extending therethrough from an inlet face to an outlet face of the carrier, the passages being defined by walls and the metal feedstock being sprayed onto the walls to provide a metal anchor layer thereon; and
depositing a catalytic material onto the anchor layer.

B7 47. (New) A method for manufacturing a catalyst member comprising:
electric arc spraying a metal feedstock onto a monolithic honeycomb carrier substrate having a plurality of gas flow passages extending therethrough from an inlet face to an outlet face of the carrier, the passages being defined by walls and the metal feedstock being sprayed onto the walls to provide a metal anchor layer thereon;
depositing onto the anchor layer a catalytic material comprised of a bulk refractory metal oxide having dispersed thereon one or more catalytically active components to provide at least one catalyzed substrate; and
incorporating the at least one catalyzed substrate into a body configured to define an inlet opening and an outlet opening and so configuring and disposing the at least one catalyzed substrate between the inlet and outlet openings to define a plurality of fluid flow paths therebetween.

REMARKS

Amendment To Claims

Withdrawn claims 1-21 and 34-39 are cancelled, and claims 46 and 47 are newly presented. With this amendment, claims 22-33 and 40-47 are pending.

Independent claims 22 and 27 have been amended to define the substrate as being of reticulate configuration and to which the metal anchor layer is applied. New independent claims 46 and 47 define the substrate as being comprised of a honeycomb monolithic carrier